

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	92	570/101	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/01/19 14:05
L2	4450432	solid support linker.clm.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/01/19 14:06
L3	21	fluorohaloalkane	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/01/19 14:06
L4	16	L2 and L3	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/01/19 14:08
L5	92	570/101	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/01/19 14:10
L6	6	570/106	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/01/19 14:08
L7	58	L5 and L2	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/01/19 14:11
S1	21	fluorohaloalkanes	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 17:10
S2	231366	radiolabelled fluorine	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 14:52
S3	6	S1 and S2	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 14:52
S4	286	568/33	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 14:53
S6	2220	424/1	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 14:54

## EAST Search History

S7	0	S3 and S4	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 14:54
S8	4293530	solid support linker.clm.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 14:55
S9	21	fluorohaloalkane	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 14:55
S10	16	S8 and S9	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 14:55
S11	231366	radiolabelled fluorine	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 14:56
S12	5	S10 and S11	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 14:56
S13	2107563	polymeric film	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 17:40
S14	888182	nitro benzyl esters	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 17:40
S15	325368	S13 and S14	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 17:41
S16	801213	projection lithography	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 17:41
S17	18258	S15 and S16	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 17:41
S18	2790282	visible light	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 17:42
S19	15432	S17 and S18	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 17:43

## EAST Search History

S20	481660	synthesis	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 17:43
S21	6096	S19 and S20	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 17:43
S22	4292329	solid support	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 17:44
S23	5583	S21 and S22	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 17:44
S24	1857256	polymers	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 17:44
S25	5128	S23 and S24	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 17:45
S26	336750	ortho nitro phenylmethyl carboxylates	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 17:45
S27	3131	S25 and S26	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 17:46
S28	2639842	UV light	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 17:46
S29	3108	S27 and S28	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 17:46

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S4	286	568/33	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 14:53
S5	86	570/101	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 14:54
S6	2220	424/1	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 14:54
S7	0	S3 and S4	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 14:54
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S11	231366	radiolabelled fluorine	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 14:56
S12	5	S10 and S11	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 14:56

## EAST Search History

S13	2107563	polymeric film	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 17:40
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S18	2790282	visible light	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 17:42
S19	15432	S17 and S18	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 17:43
S20	481660	synthesis	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 17:43
S21	6096	S19 and S20	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 17:43
S22	4292329	solid support	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 17:44
S23	5583	S21 and S22	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 17:44
S24	1857256	polymers	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 17:44
S25	5128	S23 and S24	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 17:45

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S26	336750	ortho nitro phenylmethyl carboxylates	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 17:45
S27	3131	S25 and S26	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 17:46
S28	2639842	UV light	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 17:46
S29	3108	S27 and S28	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 17:46

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 13:34:20 ON 19 JAN 2007

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FILE COVERS 1907 - 19 Jan 2007 VOL 146 ISS 5

FILE LAST UPDATED: 18 Jan 2007 (20070118/ED)

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<http://www.cas.org/infopolicy.html>

=> s solid-phase preparation of fluorohaloalkanes

1053144 SOLID

288778 SOLIDS

1266108 SOLID

(SOLID OR SOLIDS)

1732748 PHASE

361078 PHASES

1884639 PHASE

(PHASE OR PHASES)

1486457 PREPARATION

78485 PREPARATIONS

1561088 PREPARATION

(PREPARATION OR PREPARATIONS)

2774886 PREPN

207266 PREPNS

2931112 PREPN

(PREPN OR PREPNS)

3746966 PREPARATION

(PREPARATION OR PREPN)

26 FLUOROHALOALKANES

L1 0 SOLID-PHASE PREPARATION OF FLUOROHALOALKANES

(SOLID(W) PHASE(W) PREPARATION(1W) FLUOROHALOALKANES)

=> s fluorohaloalkane

15 FLUOROHALOALKANE

26 FLUOROHALOALKANES

L2 36 FLUOROHALOALKANE

(FLUOROHALOALKANE OR FLUOROHALOALKANES)

=> s phase transfer catalyst

1732748 PHASE  
 361078 PHASES  
 1884639 PHASE  
 (PHASE OR PHASES)  
 802615 TRANSFER  
 26921 TRANSFERS  
 815682 TRANSFER  
 (TRANSFER OR TRANSFERS)  
 746419 CATALYST  
 749388 CATALYSTS  
 958776 CATALYST  
 (CATALYST OR CATALYSTS)  
 L3 8069 PHASE TRANSFER CATALYST  
 (PHASE(W) TRANSFER(W) CATALYST)

=> s L2 and L3

L4 0 L2 AND L3

=> s solid support-linker

1053144 SOLID  
 288778 SOLIDS  
 1266108 SOLID  
 (SOLID OR SOLIDS)  
 472807 SUPPORT  
 132224 SUPPORTS  
 561717 SUPPORT  
 (SUPPORT OR SUPPORTS)  
 21147 LINKER  
 5047 LINKERS  
 24057 LINKER  
 (LINKER OR LINKERS)

L5 14 SOLID SUPPORT-LINKER  
 (SOLID(W) SUPPORT(W) LINKER)

=> s L2 and L5

L6 2 L2 AND L5

=> d L6 1-2 bib abs

L6 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN  
 AN 2004:550927 CAPLUS  
 DN 141:106183  
 TI Solid-phase preparation of [18F]fluorohaloalkanes by  
 fluorination of solid support linked haloalkyl sulfonate with  
 [18F]-fluoride ion  
 IN Brady, Frank; Luthra, Sajinder Kaur; Zhao, Yongjun  
 PA Hammersmith Imanet Limited, UK  
 SO PCT Int. Appl., 18 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004056726	A1	20040708	WO 2003-GB5630	20031219
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			



AU 2003295152	A1	20040714	AU 2003-295152	20031219
EP 1572602	A1	20050914	EP 2003-786153	20031219
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2006510709	T	20060330	JP 2004-561682	20031219
US 2006069294	A1	20060330	US 2005-539163	20050614
PRAI GB 2002-29688	A	20021220		
WO 2003-GB5630	W	20031219		

OS MARPAT 141:106183

AB The invention relates to a process for the production of an [18F] fluorohaloalkane which comprises treatment of a solid support-bound precursor of formula SOLID SUPPORT-LINKER-SO<sub>2</sub>-O-(CH<sub>2</sub>)<sub>n</sub>X (wherein n = an integer of from 1 to 7; X = Cl, Br, iodo) with 18F<sup>-</sup> ion to produce the [18F]fluorohaloalkane of formula 18F-(CH<sub>2</sub>)<sub>n</sub>-X (wherein n and X are as defined above) optionally followed by (i) removal of excess 18F<sup>-</sup> ion, for example by ion-exchange chromatog.; and/or (ii) removal of organic solvent. The [18F] fluorohaloalkane is useful for positron-emission tomog. (PET) chemical. Thus, PS-CH<sub>2</sub>N(Et)SO<sub>2</sub>(CF<sub>2</sub>)<sub>4</sub>SO<sub>2</sub>CH<sub>2</sub>Br (PS = polystyrene resin) (preparation given) was fluorinated by kryptofix, K<sub>2</sub>CO<sub>3</sub>, and [18F]F<sup>-</sup> in MeCN at 85° for 10 min and filtered. The solution was then passed onto a C18 solid phase extraction cartridge and washed with water to remove MeCN, kryptofix and K<sub>2</sub>CO<sub>3</sub>. Addition of more MeCN washed the radiofluorinated product, (i.e. [18F]-fluorobromomethane) of the cartridge into a solution of 0.1 M HCl.

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2004:287826 CAPLUS

DN 140:303307

TI Preparation of (radiolabeled) fluorohaloalkanes by halogenation of silylfluoroalkanes

IN Brady, Frank; Luthra, Sajinder; Zhao, Yongjun

PA Hammersmith Imanet Ltd., UK

SO PCT Int. Appl., 15 pp.  
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004029006	A2	20040408	WO 2003-GB4026	20030918
	WO 2004029006	A3	20040513		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2003264895	A1	20040419	AU 2003-264895	20030918
	EP 1554231	A2	20050720	EP 2003-798241	20030918
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	JP 2006500419	T	20060105	JP 2004-539176	20030918
	US 2006106219	A1	20060518	US 2005-528645	20051118
PRAI	GB 2002-22426	A	20020927		
	WO 2003-GB4026	W	20030918		

OS MARPAT 140:303307

AB X(CH<sub>2</sub>)<sub>n</sub>F (X = halo; n = 1-6) were prepared by reaction of R'R''R'''Si(CH<sub>2</sub>)<sub>n</sub>F (R', R'' = alkyl, haloalkyl; R''' = alkyl, haloalkyl, solid

support-linker unit; n = 1-6) with XY (X, Y = halo).  
Thus, Me<sub>3</sub>SiCH<sub>2</sub>OSO<sub>2</sub>CF<sub>3</sub> was heated 5 min. with <sup>18</sup>F-/Kryptofix 2.2.2 complex  
in MeCN at 75°; Bu<sub>4</sub>NF in MeCN and Br<sub>2</sub> in MeOH were added followed  
by sealing and heating at 110° for 3-4 min. to give  
[<sup>18</sup>F]-fluorobromomethane in 55-70% radiochem. yield.

=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	29.18	29.39
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-1.56	-1.56

STN INTERNATIONAL LOGOFF AT 13:36:37 ON 19 JAN 2007